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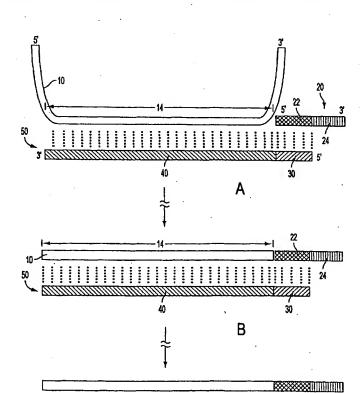
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[Continued on next page]

(54) Title: MULTIPLEX OLIGONUCLEOTIDE ADDITION AND TARGET AMPLIFICATION



(57) Abstract: Methods for appending oligonucleotides directly to nucleic acid templates, particularly to defined sites internal to single-stranded templates, are described. Appending first and second common priming sites to each of a plurality of templates of distinct sequence allows the subsequent stoichiometric amplification of a plurality of templates of distinct sequence.

European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/37239

			
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :C12Q 1/68; C12P 19/54; C07H 21/02; C07H 21/04			
US CL :435/6 91.2, 91.1; 536/23.1, 24.3, 24.39 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 485/6, 91.2, 91.1; 536/23.1, 24.3, 24.33			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
WEST 2.0: JPO, EPO, DERWENT, USPATFUL STN: medline, caplus, biosis.			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X	US 6,130,073 A(EGGERDING) 10 October 2000, See the Abstract		1 and 23
X	US 5,888,731 A (YAGER et al.) 30 l 56.	March 1999, col. 2, lines 36-	1-2 and 23-24
X	US 5,728,526 A (GEORGE, Jr. et al.) 17 March 1998, col. 3, lines 1-37 11-62.		
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority			
	cument defining the general state of the art which is not considered be of particular relevance	date and not in conflict with the appl the principle or theory underlying the	
"E" earlier document published on or after the international filing date			claimed invention cannot be
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		considered novel or cannot be considered to involve an inventive stop when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be	
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than the priority date claimed		"d" document member of the same patent family	
Date of the actual completion of the international search OS APRIL 2003		Date of mailing of the international search report 19 JUN 2003	
Name and mailing address of the ISA/US Auc		Authority of the second	- 54
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231		Authorized officer Low reace for	
T : 13 34 (1992) 200		Telephone No. (703) 308-0196 .	·

Form PCT/ISA/210 (second sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/37259

Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claims Nos.:			
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
s. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
*			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the applicant's protest.			
No protest accompanied the payment of additional search fees.			